The Operational Test and Evaluation of the Products of a Defined Software Process

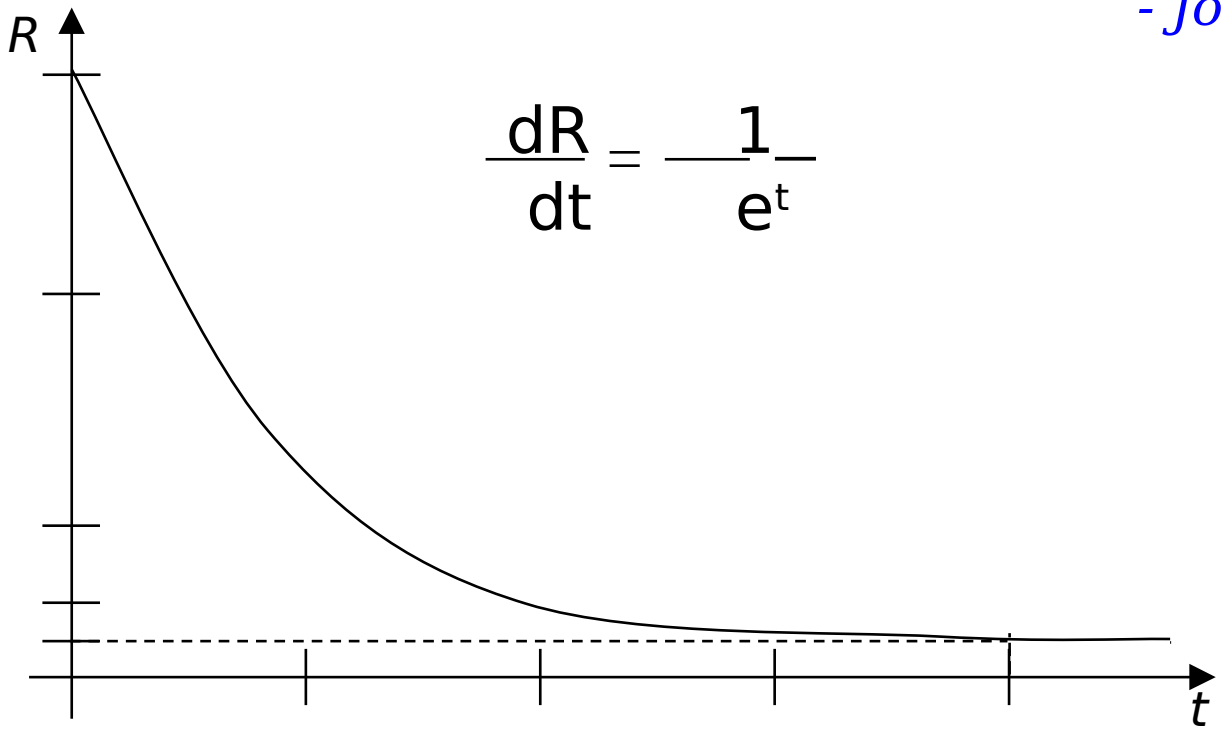
LT Alex Hoover

September 10, 2016

Rice's Rule

"The half-life of the relevance of an idea is one-fourth the time between submitting the abstract and taking the podium"

- John Rice



$$\frac{dR}{dt} = \frac{1}{e^t}$$

Already Said…

- CMMI isn’t
  - a product measure
  - a guarantee
  - an external performance standard
- CMMI does
  - provide efficiency ROI to the Program
  - include the operational aspects of performance
  - support continuous involvement

OT&E ROI

- Referent model for evaluating operational performance
  - Identifies user interface to development
  - Characterizes artifacts
  - Emphasizes CONOPS/Concept of Employment early
- Embodies the concept of Speed of Command WRT system and capability development
- Encourages self-awareness

"The problem with looking for self-awareness is you might actually find it."

W. C. Fields

Program ROI

"Not everything that matters can be counted; not everything that can be counted matters."

-Albert Einstein

- Requires an analytical basis that permits trade-off analysis in the mission performance space
- Characterizes problems
- Bounds solutions
- Identifies risk incurred as a result of an incomplete process

Contact

LT Alex Hoover
COMOPTEVFOR, Code 83
7970 Diven Street
Norfolk, VA 23505
(757) 282-5546 x3397
hoovera@cotf.navy.mil

Operational Test & Evaluation?

- What – Statutory assessment of acquisition systems within the operational environment
- Who – Each Service delegates OT&E authority
- When – Continuously throughout the lifecycle
- How – OUE, OA, OPEVAL
- Why – System performance is fundamentally different from mission capability